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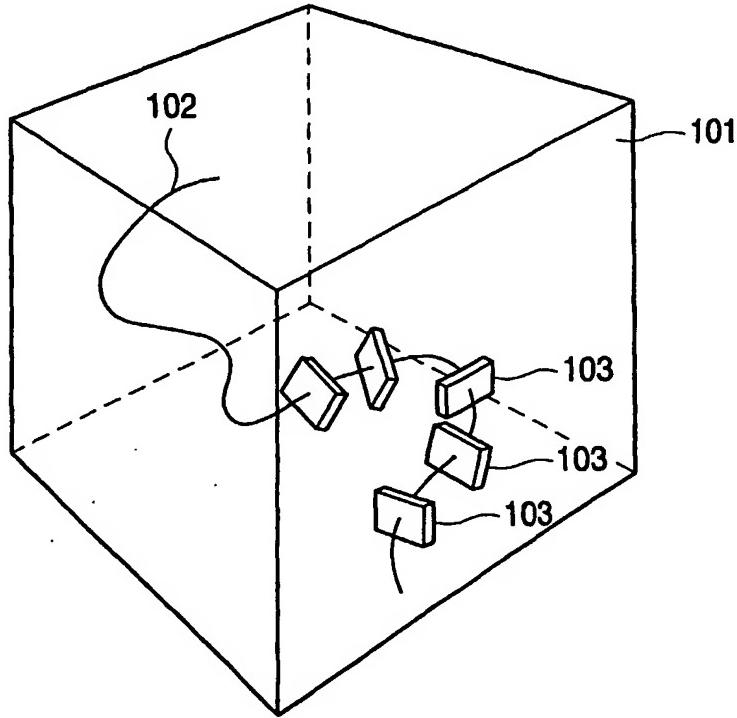
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(54) Title: METHOD OF STRAIGHTENING A REFORMAT FOR NAVIGATION AND QUANTIFICATION



(57) Abstract: A method of producing an improved straightened reformat is presented in which cross sections are calculated perpendicular to an elongate subject described within an object data set, a reference direction is determined in each cross sectional slice and a new object data set is created by concatenating the cross sectional slices, each cross sectional slice orientated so that the reference directions in the cross sectional slices are aligned. Various methods are presented by which the reference direction is determined within each cross sectional slice, including propagation from an original reference direction and optimization using determined reference directions as boundary conditions.



*PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)*

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**B. FIELDS SEARCHED**

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

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**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 01 37219 A (GEN ELECTRIC) 25 May 2001 (2001-05-25) abstract page 10, line 22 - line 24 figure 10 ---	1-11
A	WO 01 80185 A (GEN ELECTRIC) 25 October 2001 (2001-10-25) abstract page 9, line 20 - line 25 figures 21,22 ---	1-11

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>DESCHAMPS T ET AL: "AUTOMATIC CONSTRUCTION OF MINIMAL PATHS IN 3D IMAGES: AN APPLICATION TO VIRTUAL ENDOSCOPY"            CARS. COMPUTER ASSISTED RADIOLOGY AND SURGERY. PROCEEDINGS OF THE INTERNATIONAL CONGRESS AND EXHIBITION, PROCEEDINGS OF THE INTERNATIONAL SYMPOSIUM ON COMPUTER ASSISTED RADIOLOGY AND SURGERY, XX, XX, 23 June 1999 (1999-06-23), pages 151-155,            XP008007657            abstract</p> <p>---</p>	1-11
A	<p>VERDONCK B ET AL: "SPIRAL CT: A SURVEY ON ACCURACY, RESOLUTION AND ARTIFACTS"            APPLIED SIGNAL PROCESSING, SPRINGER VERLAG, LONDON, GB,            vol. 5, no. 1, 1998, pages 3-23,            XP000852962            ISSN: 0941-0635            abstract</p> <p>-----</p>	1-11

# INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)		Publication date
WO 0137219	A 25-05-2001	DE 10083899 T0 JP 2003514600 T WO 0137219 A1 US 6522712 B1 EP 1277175 A1 WO 0180184 A1 WO 0180185 A1		07-03-2002 22-04-2003 25-05-2001 18-02-2003 22-01-2003 25-10-2001 25-10-2001
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